Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-01-10-32 **Date: 11-11-19**

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 08-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 09-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.54	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.2	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-10-32** **Date: 11-11-19**

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 08-11-19

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 08-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	187	187	1.2	98.8	90-100
3	20 mm	7276	7463	49.8	50.2	30-70
4	10 mm	4074	11537	76.9	23.1	10-35
5	4.75 mm	3000	14537	96.9	3.1	0-5
6	Pan	463	15000	100.0	0	---

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-01-10-32** **Date: 13-11-19**

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 12-11-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 12-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/12/2019

Lab ID	:	CP-2020-01-10-32
Project Name	:	Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/176/2019-20
Date of Receipt	:	18-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	15/11/2019	13/12/2019	150.60 X 151.55 X 149.33	22822	8.776	533.8	23.4	23.3
2	Drain Bottom Slab Concrete	M20	15/11/2019	13/12/2019	150.84 X 151.11 X 150.10	22794	8.581	521.4	22.9	
3	Drain Bottom Slab Concrete	M20	15/11/2019	13/12/2019	149.25 X 150.50 X 150.47	22463	8.303	529.6	23.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2020-01-10-32

Date: 22/11/2019

ect Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

cy : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

omer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

of Receipt : 18-11-19

omer ID : Drain Bottom Slab Concrete

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 22/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	149.05 X 149.78 X 151.69	22325	8.233	404.8	18.1	18.4
Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	149.53 X 150.24 X 149.40	22466	8.724	421.9	18.8	
Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	151.59 X 149.99 X 151.49	22738	8.335	415.0	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-10-32

Date: 22/11/2019

Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

: M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

er's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Receipt : 18-11-19

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 22/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	149.34 X 151.66 X 151.29	22649	8.233	416.8	18.4	18.6
Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	151.73 X 151.22 X 150.40	22945	8.724	430.8	18.8	
Drain Bottom Slab Concrete	M20	15/11/2019	22/11/2019	151.55 X 151.45 X 151.78	22952	8.335	424.0	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

o ID : CP-2020-01-10-32 Date: 27/11/2019

oject Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

gency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

ustomer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

ate of Receipt : 22-11-19

ustomer ID : Drain Side Wall Concrete

ample Type /Size : 150X150X150 mm

ample grade/Age : M20 / 7 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ate of test : 27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	150.09 X 149.32 X 151.03	22411	8.233	411.1	18.3	18.4
2	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	149.20 X 150.09 X 150.46	22393	8.724	404.0	18.0	
3	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	150.19 X 150.92 X 150.21	22668	8.335	427.7	18.9	

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ab ID : CP-2020-01-10-32 **Date: 27/11/2019**

oject Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

gency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

ustomer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

ate of Receipt : 22-11-19

ustomer ID : Drain Side Wall Concrete

ample Type /Size : 150X150X150 mm

ample grade/Age : M20 / 7 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ate of test : 27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.00 X 150.13 X 149.47	22670	8.233	420.6	18.6	18.8
2	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	150.21 X 150.48 X 151.21	22602	8.724	427.6	18.9	
3	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	149.79 X 150.95 X 151.90	22611	8.335	427.8	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-32

Date: 27/11/2019

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.09 X 149.07 X 150.47	22523	8.233	421.1	18.7	18.3
2	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.20 X 149.19 X 151.36	22558	8.724	407.7	18.1	
3	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	150.94 X 149.56 X 151.24	22574	8.335	412.1	18.3	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/11/2019

ab ID	:	CP-2020-01-10-32
roject Name	:	Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division
gency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010
ustomer's Reference	:	BBMP/EE/YNK.D/W.O/176/2019-20
ate of Receipt	:	22-11-19
astomer ID	:	Drain Side Wall Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test	:	27/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.19 X 150.43 X 151.43	22743	8.233	418.6	18.4	18.6
2	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	149.52 X 151.73 X 149.13	22687	8.724	424.2	18.7	
3	Drain Side Wall Concrete	M20	20/11/2019	27/11/2019	151.20 X 151.05 X 150.94	22838	8.335	426.3	18.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-32 **Date: 18/12/2019**

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/11/2019	18/12/2019	151.38 X 149.77 X 151.83	22673	8.776	542.2	23.9	23.4
2	Drain Side Wall Concrete	M20	20/11/2019	18/12/2019	150.41 X 151.82 X 149.85	22835	8.581	512.0	22.4	
3	Drain Side Wall Concrete	M20	20/11/2019	18/12/2019	151.83 X 151.16 X 151.23	22950	8.303	548.9	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-32

Date: 30/11/2019

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 25-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	23/11/2019	30/11/2019	149.16 X 149.96 X 151.06	22367	8.233	421.4	18.8	18.9
2	Culvert Bottom Slab Concrete	M20	23/11/2019	30/11/2019	150.63 X 149.51 X 151.50	22520	8.724	427.6	19.0	
3	Culvert Bottom Slab Concrete	M20	23/11/2019	30/11/2019	150.45 X 151.23 X 151.13	22754	8.335	429.9	18.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-32 **Date: 30/11/2019**

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 25-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	23/11/2019	30/11/2019	150.38 X 149.14 X 150.01	22428	8.233	422.2	18.8	18.7
2	Culvert Bottom Slab Concrete	M20	23/11/2019	30/11/2019	149.29 X 149.38 X 151.59	22302	8.724	417.4	18.7	
3	Culvert Bottom Slab Concrete	M20	23/11/2019	30/11/2019	149.71 X 151.85 X 150.71	22734	8.335	421.2	18.5	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-32 Date: 03/12/2019

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 28-11-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	26/11/2019	03/12/2019	149.98 X 149.60 X 151.69	22438	8.233	416.4	18.6	18.5
2	Culvert Side Wall Concrete	M20	26/11/2019	03/12/2019	149.89 X 150.30 X 150.45	22530	8.724	411.0	18.2	
3	Culvert Side Wall Concrete	M20	26/11/2019	03/12/2019	149.18 X 151.43 X 151.39	22590	8.335	421.3	18.7	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-32 Date: 03/12/2019

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 28-11-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Culvert Side Wall Concrete	M20	26/11/2019	03/12/2019	150.27 X 150.01 X 149.31	22543	8.233	409.2	18.2	18.3
2	Culvert Side Wall Concrete	M20	26/11/2019	03/12/2019	151.29 X 150.09 X 149.81	22707	8.724	412.5	18.2	
3	Culvert Side Wall Concrete	M20	26/11/2019	03/12/2019	150.69 X 149.22 X 150.88	22485	8.335	415.3	18.5	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-32 **Date: 07/12/2019**

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 02-11-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	151.48 X 151.70 X 151.27	22979	8.817	577.9	25.1	25.4
2	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	151.06 X 151.03 X 151.09	22815	8.539	613.3	26.9	
3	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	150.68 X 149.51 X 150.55	22528	8.045	545.8	24.2	

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Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 02-11-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	151.33 X 150.51 X 150.23	22777	8.817	590.3	25.9	25.6
2	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	151.41 X 150.70 X 151.97	22818	8.539	597.9	26.2	
3	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	150.22 X 151.69 X 149.01	22787	8.045	561.1	24.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-10-32 **Date: 07/12/2019**

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 02-11-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	151.49 X 150.69 X 151.11	22829	8.817	587.2	25.7	25.5
2	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	150.84 X 149.73 X 151.79	22585	8.539	602.3	26.7	
3	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	151.66 X 150.68 X 150.93	22853	8.045	553.3	24.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/12/2019

Lab ID	:	CP-2020-01-10-32
Project Name	:	Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division
Agency	:	M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main shivakumar swamy building, Bhashyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/176/2019-20
Date of Receipt	:	02-11-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/11/2019	28/12/2019	149.88 X 149.46 X 150.50	22400	8.676	741.9	33.1	33.1
2	Cement Concrete Pavement	M30	30/11/2019	28/12/2019	150.86 X 149.16 X 150.07	22502	8.409	730.6	32.5	
3	Cement Concrete Pavement	M30	30/11/2019	28/12/2019	149.70 X 150.97 X 150.38	22601	8.274	762.7	33.7	

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Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 02-11-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	150.81 X 151.76 X 149.41	22886	8.817	587.4	25.7	25.6
2	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	150.67 X 150.95 X 151.98	22745	8.539	597.1	26.3	
3	Cement Concrete Pavement	M30	30/11/2019	07/12/2019	150.71 X 149.11 X 151.67	22472	8.045	557.4	24.8	

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Lab ID : CP-2020-01-10-32 Date: 28/12/2019

Project Name : Improvements to roads and drains at Harohalli main and cross roads and surrounding areas in Ward No. 02 of Yelahanka Sub Division

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Customer's Reference : BBMP/EE/YNK.D/W.O/176/2019-20

Date of Receipt : 02-11-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	30/11/2019	28/12/2019	151.40 X 151.53 X 151.67	22943	8.676	762.0	33.2	32.8
2	Cement Concrete Pavement	M30	30/11/2019	28/12/2019	149.09 X 149.39 X 149.10	22273	8.409	714.2	32.1	
3	Cement Concrete Pavement	M30	30/11/2019	28/12/2019	150.60 X 151.92 X 150.09	22879	8.274	758.3	33.1	

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